

6Y6-GT

BEAM PENTODE

—— DESCRIPTION AND RATING —

The 6Y6-GT is a beam power pentode primarily intended for use as an audiofrequency power amplifier. It is particularly useful in applications where the available supply voltage is relatively low. The 6Y6-GT differs from the 6Y6-G in only one respect, the straight-sided T-9 construction.

GENERAL

ELECTRICAL

MECHANICAL

Mounting Position—Any
Envelope—T-9, Glass
Base—B6-81 or B7-7, Intermediate Shell Octal
or B6-84 or B7-59, Short Intermediate Shell Octal

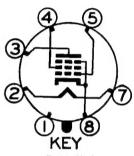
MAXIMUM RATINGS

DESIGN-CENTER VALUES

Plate Voltage	Volts
Screen Voltage	Volts
Plate Dissipation12.5	Watts
Screen Dissipation	Watts
Heater-Cathode Voltage	
Heater Positive with Respect to Cathode 180	Volts
Heater Negative with Respect to Cathode 180	Volts
Grid-Number 1 Circuit Resistance	
With Fixed Bias 0.1	Megohms
With Cathode Bias	Megohms

GENERAL (ELECTRIC

BASING DIAGRAM



RETMA 7AC

TERMINAL CONNECTIONS

Pin 1-No Connection*

Pin 2—Heater

Pin 3-Plate

Pin 4—Grid Number 2 (Screen)

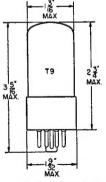
Pin 5-Grid Number 1

Pin 7—Heater

Pin 8—Cathode and Beam

* Pin 1 omitted on bases B6-81 and B6-84.

PHYSICAL DIMENSIONS



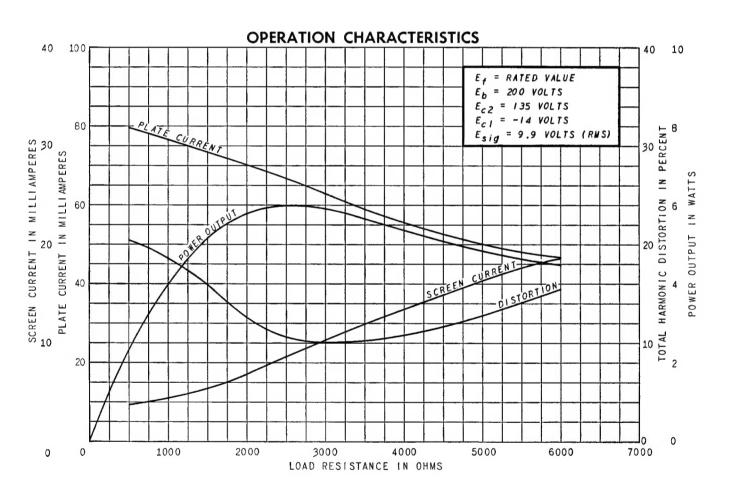
RETMA 9-11 OR 9-41

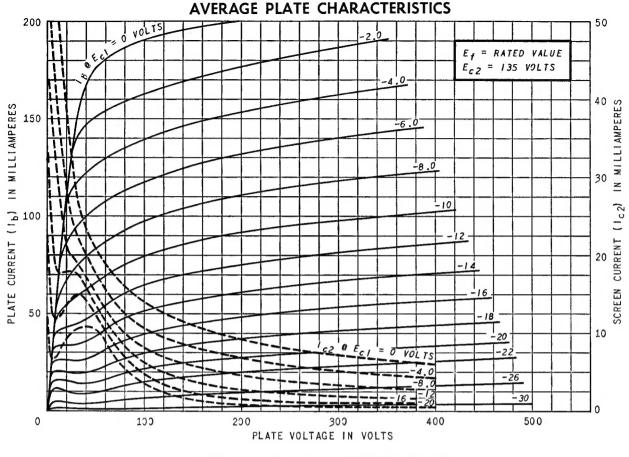
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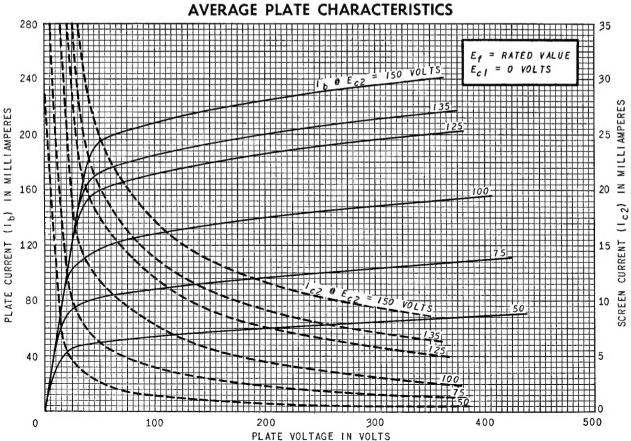
CHARACTERISTICS AND TYPICAL OPERATION

CLASS A1 AMPLIFIER

Plate Voltage	135	200	Volts
Screen Voltage	135	135	Volts
Grid-Number 1 Voltage	— 13.5	-14	Volts
Peak AF Grid-Number 1 Voltage	13 <i>.</i> 5	14	Volts
Plate Resistance, approximate	9300	18300	Ohms
Transconductance	7000	7100	Micromhos
Zero-Signal Plate Current	58	61	Milliamperes
Maximum-Signal Plate Current	60	66	Milliamperes
Zero-Signal Screen Current	3.5	2.2	Milliamperes
Maximum-Signal Screen Current	11.5	9.0	Milliamperes
Load Resistance	2000	2600	Ohms
Total Harmonic Distortion, approximate	10	10	Percent
Maximum-Signal Power Output		6.0	Watts

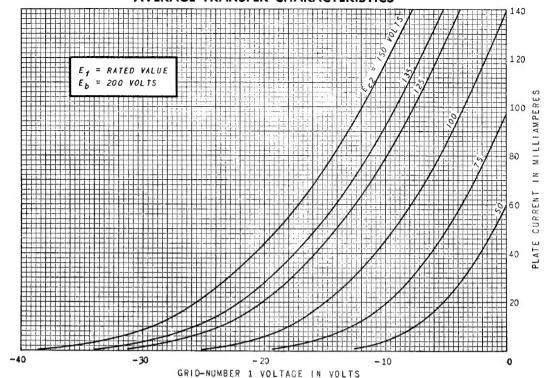




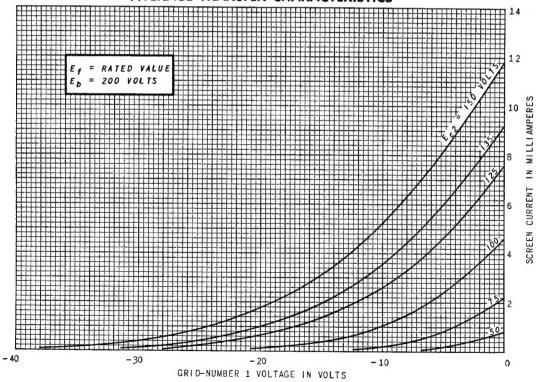


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AVERAGE TRANSFER CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



ELECTRONIC COMPONENTS DIVISION



Schenectady 5, N. Y.

